xenopus lae homo sapien saccharomyc

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derived by analysis of the total
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(c) 1993 - 2003
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   P36727
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8 rattus norv
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RRPL_SV41
                                                                                                               Query Match
Best Local S
Matches 30
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P35341;

01-JUN-1994

01-JUN-1994

15-JUN-2002
                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the large (L) protein and construction of a phylogenetic tree for the proteins of paramyxoviruses.";
J. Gen. Virol. 73:2743-750(1992).
-i- FUNCTION: PROBABLE COMPONENT OF THE ACTIVE POLYMERASE. IT MAY FUNCTION IN MRNA SYNTHESIS, CAPPING, METHYLATION AND POLY(A)
SYNTHESIS OF NEWLY SYNTHESIZED VIRAL MRNAS, RNA EDITING OF THE GENE TRANSCRIPT, AND PROTEIN KINASE ACTIVITY.
-i- CAPALITIC ACTIVITY: N nucleoside triphosphate - N diphosphate +
                                                                                                                                                                                    PIR; JQ1750; JQ1750; V1ral_RNA_pol_L.
InterPro; IPR001016; V1ral_RNA_pol; 1.
Pfam; PF00946; Paramyx_RNA_pol; 1.
Transferase; RNA-directed RNA polymerase.
SEQUENCE 2269 AA; 256429 MW; 3BD60C14AA161F5B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Simian virus 41 (SV41).
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Paramyxovirinae; Rubulavirus.
                                                                                                                                                                                                                                                                  EMBL; X64275; CAA45569.1; -. PIR; JQ1750; JQ1750.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ogawa M., Mutsuga N., Tsurudome M., Kawano M., Matsumura H.,
Kusagawa S., Komada H., Nishio M., Ito Y.;
"Nucleotide sequence analysis of the simian virus 41 gene encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=Toshiba/Chanock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Paramyxoviridae;
NCBI_TaxID=11228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=93019033; PubMed=1328485;
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                                         422
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DWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHH-RKPNKHSR 101
                                                                        PLMLMSMVSSSLNPGVARGHRDRGQAS-----RRWLQ------EGGQECE--CK 53
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                                                                                                                                   Similarity
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(Rel. 29, Last sequence update)
(Rel. 41, Last annotation update)
ase beta subunit (EC 2.7.7.48) (Large structural protein)
                                                                                                                 Conservative
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                                                                                                             12.0%; Score 77; DB 27.5%; Pred. No. 3.8; tive 12; Mismatches
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COT2_MOUSE
COT2_RAT
RM02_YEAST
NR42_XENLA
CA34_HUMAN
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SIX3_MOUSE
RA14_YEAST
RNK7_HUMAN
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Query Match

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RRPL_SV41
VDR_COTJA
VDR_COTJA
VDR_CHICK
CLR3_RAT
SV44_BRARE
LMB2_HUMAN
RRPL_P12HT
TUP1_DROME
7UP2_DROME
TRBM_HUMAN
SIX3_CHICK
VDR_MOUSE
VDR_XENLA
VDR_RAT

10.00 11.00

VDR_BOVIN
VDL_HUMAN
VEI_HPV40
HUTM_BACSU
YB98_HUMAN
COTI_MOUSE
COTI_HUMAN
COTI_BOVIN
CLR3_MOUSE
SMCY_HUMAN
VEI_HUMAN
VEI_HUMAN
VEI_GOLLN
COAT_SOOMV
MAK_MOUSE
Z186_HUMAN
ECP_PANTR
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Gaps

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Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 s

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P49701;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam; PF00104; hormone_Pfam; PF00105; zf-C4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by ancentitles requires a license agreement (See http://www.isb-sentitles.com/license/lic
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01-FEB-1996 (Rel. 33, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS00031; NUCLEAR_RECEPTOR; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS; PR00047; STROIDFINGER. ProDom; PD000035; Znf_C4steroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; U12641; AAA56725.1; HSSP; O75469; IILG.
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TISSUE-Chorioallantoic
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ALTERNATIVE PRODUCTS: 2 isoforms; A (shown here) and B; are produced by alternative initiation.
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL I A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN AND A CHEMINAL STEROID-BINDING DOMAIN AND A CHEMINAL STEROID-BINDING MOMAIN AND A CHEMI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NR1 SUBFAMILY.
CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                       MW;
                                                                                                                 11;
                                                                                                                                                         Score
Pred.
                                                                                                                                                                                                                                                                                                              LIGAND-BINDING
                                                                                                                                                                                                                                                                                                                                                                                     FOR ISOFORM B.
NUCLEAR RECEPTOR-TYPE.
C4-TYPE.
C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VITAMIN D3
VITAMIN D3
                                                                                                                                                                                                                                                                                                                                                     HINGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                       FCF1FC3DEAEEAF3E CRC64;
                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -
                                                                                                                                                 74.5; DE No. 1.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B)

    DNA-binding;

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RECEPTOR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RECEPTOR,
                                                                                                                                                                                            DB
                                                                                                                 15;
                                                                                                                                                                                        1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nuclear protein;
                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ISOFORM
ISOFORM
                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CONTROLLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            their
                                                                                                                                                                                            448;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN.
                                                                                                                     23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a collaboration -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tor commercia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      in
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                                                                                                                 Gaps
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RESULT 3
VDR.CHICK
ID VDR.C CHICK
ID VDR.C CHICK
ID (4239
DT 15-DE
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15-DEC-1998
15-DEC-1998
                  CHAIN
CHAIN
INIT_MET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- SUBCELLULAR LOCATION: Nuclear.
-!- ALTERNATIVE PRODUCTS: 2 isoforms; A (shown here) and B; are produced by alternative initiation.
-!- TISSUE SPECIFICITY: EXPRESSED IN KIDNEY AND INTESTINE.
-!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
-!- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
                                                                                                                                                                                                                                               TRANSFAC; T00884; ...
InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                    EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lu Z., Hanson K., Deluca H.F.; "Cloning and origin of the two forms of chicken vitamin D receptor."; Arch. Blochem. Blophys. 339:99-106(1997).
                                                                                                                                                      PRINTS; PRO0047; STROIDFINGER, PRODOM; PD00035; Znf_C4SterdSMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                 use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        between the Swiss Institute of Bioinf
the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It between the Swiss Institute of Bioinfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE OF 45-114 FROM N.A. MEDLING-87149040; PubMed-3029866; MCDonnell D.P., Mangelsdorf D.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. (ISOFORMS A STRAIN-Leghorn; TISSUE-Kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
15-DEC-1998 (Rel. 41, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin
                                                                                                              Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Molecular cloning of complementary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              O'Malley B.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=97223369; PubMed=9056239;
Lu Z., Hanson K., Deluca H.F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gallus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Archosauria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VDR OR NR111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VDR_CHICK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RCVDIGMMKEFIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CEGCKGFFRRSMKRKAMFT - - -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QC----QLRSFAL
                                                                                                                                                                                                                                                                                                                                                                  075469;
                                                                                                                                                                                                                                                                                                                                                                                          AF011356; AAB62579.1;
                                                                                                              PS00031; NUCLEAR_RECEPTOR;
; Transcription regulation;
Alternative
1 451
15 451
15 15
15 15
47 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aves;
                                                                                                                                                                                                                                                                                                                                                             lilG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD
                                                                                                                                                                                                     Znf_C4steroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chordata;
                                                                                           initiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A AND
                  VITAMIN D3 RECEPTOR, VITAMIN D3 RECEPTOR, FOR ISOFORM B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --CP---FSGDCKITKDNR-----RHCQACR--LK 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Craniata; Vertebrata; Euteleostomi;
; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bioinformatics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pike
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA
                                                                                                         DNA-binding; Nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   is produced through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J.W., Haussler M.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        There are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                       http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           D3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      avian receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           restricti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CONTROLLING
                                                                                                              protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL
                                            B >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN,
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RESULT
CLR3_R
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JUN-2002 (Rel. 41, Last sequence update)
Cadherin EGF LAG seven-pass G-type receptor 3
epidermal growth factor-like domains 2).
CELSR3 OR MEGF2.
Rattus normania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZN_FING
ZN_FING
DOMAIN
DOMAIN
SEQUENCE
                       InterPro;
InterPro;
                                                                                                                                                                                                                                                                                  "Nakayama M., Nakajima D., Nagase T., Nomura N., Seki N., Ohara T., Italian D., Nagase T., Nomura N., Seki N., Ohara Schiller Station of high-molecular-weight proteins with multipl EGF-like motifs by motif-trap screening."; Genomics 51:27-34(1998).

-i- FUNCTION: Receptor that may have an important role in cell signaling during nervous system formation.

-i- SUBCELIGUAR LOCATION: Integral membrane protein.
-i- TISSUE SPECIFICITY: Expressed in the brain. Expressed in cerebrellum, olfactory bulb, cerebral cortex, hippocampus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLR3_RAT
088278;
                                                               InterPro;
InterPro;
                                                                                               EMBL;
                                                                                                                                             use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                          This
                                                                                                                                                                                                                                                                                                                                                                               STRAIN-Sprague-Dawley; TISSUE-Bra
MEDLINE-98360089; PubMed-9693030;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                   InterPro;
                                                                                                                                       entities requires a
                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus norvegicus (Rat).
             InterPro;
                                          InterPro;
                                                      InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           50
                                                                                                                             send
                                                                                                                                                                                                             Drain Stem.

SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS SIMILARITY: CONTAINS 9 CADHERIN DOMAINS.

SIMILARITY: CONTAINS 8 EGF-LIKE DOMAINS.

SIMILARITY: CONTAINS 1 LAMININ G-LIKE DOMAINS.

SIMILARITY: CONTAINS 1 LAMININ EGF-LIKE DOMAIN.

SIMILARITY: CONTAINS 1 GPS DOMAIN.
                                                                                                                                                          s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QC----QLRSFAL 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CEGCKGFFRRSMKRKAMFT-----
                                                                                              AB011528;
P00740; 1E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RCVDIGMMKEFIL 118
                                                                                                                              an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                               IPR002126;
IPR000561;
IPR000742;
IPR001881;
IPR000832;
                                                                                   IPR000152;
                        IPR001879;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        47
83
113
216
451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                67
107
215
451
51299 .
                                                                                                         BAA32459.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Chordata;
Rodentia;
                                                                                                                             license agreement (S license@isb-sib.ch).
                                                               Cadherin.
EGF-like.
                                EGF_Ca.
GPCR_secretin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.6%;
32.9%;
            hormn_receptor.
Laminin_EGF.
                                                                                    Asx_hydroxyl.
                                                     EGF_2
  Laminin_G
                                                                                                                                                                                                                                                                                                                                                                                           TISSUE-Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Œ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C4-TYPE.
C4-TYPE.
HINGE.
LIGAND-BINDING.
LIGAND-BINDING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 74.5; D
Pred. No. 1.5;
L1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                   Craniata; Veri
Sciurognathi;
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                                                                                                                                       (See
                                                                                                                                                                                                                                                                                                                                                                                                                                     Vertebrata; Euteleostomi;
thi; Muridae; Murinae; Rattus.
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                                                                                                                                                Usage
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   SMART; SM00112;
SMART; SM00180;
SMART; SM00001;
SMART; SM00303;
 DOMAIN
DISULFID
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SMART; S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE;
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PS00022;
PS01186;
PS50125;
PS50025;
PS500649;
PS00650;
PS50227;
PS50261;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               domain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein;
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5; CADHERIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cadherin;
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LamG; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GPS; 1.

LAM G_DOMAIN; 2.

G_PROTEIN_RECEP_F2_1; F

G_PROTEIN_RECEP_F2_2; F

G_PROTEIN_RECEP_F2_3; 1

G_PROTEIN_RECEP_F2_4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EGF_like;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d receptor; Transmembrane; Calcium-binding; Laminin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CADHERIN_
EGF_1; 6.
EGF_2; 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CADHERIN_1;
CADHERIN_2;
                                                                                             ASX_HYDROXYL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hydroxylation; Signal.
                                                                       EGF-LIKE 1, CALCIUM-BINDING.
EGF-LIKE 2, CALCIUM-BINDING.
EGF-LIKE 3, CALCIUM-BINDING.
LAMININ G-LIKE 1.
EGF-LIKE 4, CALCIUM-BINDING.
LAMININ G-LIKE 2.
EGF-LIKE 5, CALCIUM-BINDING.
EGF-LIKE 5, CALCIUM-BINDING.
EGF-LIKE 6, CALCIUM-BINDING.
EGF-LIKE 7, CALCIUM-BINDING.
GPS.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                           CYTOPLASMIC
CADHERIN 1.
CADHERIN 2.
CADHERIN 3.
CADHERIN 4.
CADHERIN 5.
CADHERIN 6.
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CADHERIN
CADHERIN
EGF-LIKE
EGF-LIKE
EGF-LIKE
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CYTOPLASMIC (
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RESULT 5
SV44_BARE
ID SV44_B
AC Q06725
DT 15-JUL
DT 15-JUL
DT 15-JUL
DT 15-JUL
OF Steroi
GN SVP44
OS Brachy
OC Eukary
OC Eukary
OC Actino
OC Cyprin
OX NCBI_T
RN [1]
RP SEQUEN
RA FJOSE
RT "Funct
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Best Local S
Matches 35
[1]
SEQUENCE FROM N.A.
MEDLINE-93223680; PubMed-8467797;
MEDLINE-93223680; PubMed-8467797;
Piose A., Nornes S., Weber U., Mlodzik M.;
Piose A., Tangervation of vertebrate seven-up
                                                                                                                                                                                                                                                                              SV44_BRARE
Q06725;
15-JUL-1999
15-JUL-1999
15-JUN-2002
                                                                                                                                                                                                                                   15-JUL-1999 (Rel. 38, Created)
15-JUL-1999 (Rel. 38, Last sequence up
15-JUN-2002 (Rel. 41, Last annotation
Steroid receptor homolog SVP 44.
SVP44 OR NRZF1.
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CARBOHYD
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                                                                                                                                   Brachydanio rerio (Zebrafish)
Eukaryota; Metazoa; Chordata;
Actinopterygii; Neopterygii; T
Cyprinidae; Danio.
CCBI_TaxID-7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2088
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27.6%;
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BY SIMILARITY.
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                                                                                                                                                                             ) (Danio rerio).; Craniata; Vert
Teleostei; Osta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 72.5;
                                                                                                                                                                                                                                                                                                                                                                      PRT;
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LINKED (GLCNAC
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                                                                                                                                                                       Vertebrata; Euteleostomi;
Ostariophysi; Cypriniformes;
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                                related genes
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                                in
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RESULT 6
LMB2_HUMAN
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Best Local S
Matches 26
                    Genomics [2]
                                      MEDIINE-95213013; PubMed-7698745; Wewer U.M., Gerecke D.R., Durkin M.E., Kurtz K.S., Matte Champliaud M.F., Burgeson R.E., Albrechtsen R.; "Human beta 2 chain of laminin (formerly S chain): cDNA chromosomal localization, and expression in carcinomas." Genomics 24:243-252(1994).
                                                                                                                                                                                                                                                                                                                    IMB2_HUMAN STANDARD; PRT; 1798 AA. P55268; Q16321; 01-0CT-1996 (Rel. 34, Created) 01-0CT-1996 (Rel. 34, Last sequence update) 15-JUN-2002 (Rel. 41, Last annotation update) Laminin beta-2 chain precursor (S-laminin) (Laminin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA_BIND
ZN_FING
ZN_FING
                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
SEQUENCE FROM N.A.
                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                NCBI_TaxID=9606
                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00399; ZnF_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR;
Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR00398; STRDHORMONER.
PRINTS; PR00047; STROIDFINGER.
ProDom; PD000035; Znf_C4steroid;
SMART; SM00430; HOLL; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001733; Stdhrmn_receptor.
InterPro; IPR001628; Znf_C4steroid.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as lon modified and this statement is not remove entitles requires a license agreement (s) or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LAMB2 OR LAMS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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Metazoa; Chordata; C.
Metazoa; Primates; C
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411 AA;
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136 C
145482 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 71; DB
Pred. No. 3.2;
L4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEAR
C4-TYPE.
C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          is not removed.
                                                                                                                                                                                                                                       Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B0405FB4AEFA0202 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA-binding; Nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RECEPTOR-TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.
                                                             carcinomas.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              110
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RECEPTOR FAMILY
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                                                                                                                                                                                                                                                                                                                                Bls chain).
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                                                                                 cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein;
                                                                                                                          M.-G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'n
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Pfam; PF00053; laminin_ksr; ...

Pfam; PF00055; laminin_nterm; 1.

Pfam; PF00055; laminin_nterm; 1.

Pfam; PF00055; laminin_nterm; 1.

PRINTS; PR00011; EGFLAMININ.

R PROSITE; SM00180; EGF_Lam; 11.

R PROSITE; PS01022; EGF_1; 10.

PROSITE; PS01248; LAMININ_TYPE_EGF; 12.

PROSITE; PS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Genew; HGNC...
MIM; 150325;
  SIGNAL
CHAIN
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sariola H., Tryggvason K.;
"The human laminin beta 2 chain (S-laminin): structure, expression fetal tissues and chromosomal assignment of the LAMB2 gene.";
Matrix Biol. 14:489-497 (1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL;
EMBL;
EMBL;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (S-MEROSIN), AND LAMININ-7 (KS-LAMININ).

(S-MEROSIN), AND LAMININ-7 (KS-LAMININ).

(S-MEROSIN), S-LAMINON: Extracellular.

TISSUE SPECIFICITY: FOUND IN THE BASEMENT MEMBRANES (MAJOR COMPONENT). S-LAMININ IS CONCENTRATED IN THE SYNAPTIC CLEFT OF THE NEUROMUSCULAR JUNCTION.

DOMAIN: THE ALPHA-HELICAL DOMAINS I AND II ARE THOUGHT TO INTI WITH OTHER LAMININ CHAINS TO FORM A COILED COIL STRUCTURE.

DOMAIN: DOMAINS VI AND IV ARE GLOBULAR.

SIMILARITY: CONTAINS 1 LAMININ N-TERMINAL DOMAIN (DOMAIN VI).

SIMILARITY: CONTAINS 1 LAMININ BGF-LIKE DOMAINS.

SIMILARITY: CONTAINS 1 LAMININ DOMAIN IV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Comprising one long and three short arms with globules at each end.
THE BETA-2 CHAIN IS A SUBUNIT OF LAMININ-3 (S-LAMININ), LAMININ-4 (S-MEROSIN), AND LAMININ-7 (KS-LAMININ).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FUNCTION: Binding to cells via a high affinitis thought to mediate the attachment, migrat of cells into tissues during embryonic devel with other extracellular matrix components. SUBUNIT: Laminin is a complex glycoprotein, different polypeptide chains (alpha, beta, g to each other by disulfide bonds into a cross
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Z68155; CAA92279.1; JOINED X79683; CAA56130.1; -. S77512; AAB34682.2; -. P02468; IKLO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X79683; CAA56130.1;
S77512; AAB34682.2;
P02468; 1KLO.
; HGNC:6487; LAMB2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPR001886; LamNT.
    IPR002049; Laminin_EGF.
0053; laminin_EGF; 13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IPR000561; EGF-like.
    1798
280
346
409
469
521
552
552
781
552
781
552
783
783
1037
  LAMININ
                                                                                                                                                                                                                                                                                                                                                                                          Extracellular matrix;
N BETA-2 CHAIN.
N N-TERMINAL (DN N-TERMINAL (DN EGF-LIKE 1.
N EGF-LIKE 2.
N EGF-LIKE 4.
N EGF-LIKE 5.
N DOMAIN IV.
N EGF-LIKE 6.
N EGF-LIKE 7.
N EGF-LIKE 9.
N EGF-LIKE 9.
N EGF-LIKE 11.
N EGF-LIKE 11.
N EGF-LIKE 11.
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pha, beta, gamma), which are bound
into a cross-shaped molecule
ort arms with globules at each
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             affinity receptor, laminin migration, and organization c development by interacting
                                                                                                                                                                                  4.
5 (INCOMPLETE)
                                                                                                                                                                                                                                                                                                                                                                     Signal
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                                                                                                                                                                                                          Matches
                                                                SLNPGVARGHRDR-----GQASRRWLQEGGQECE-CKDWFLRAPRRKFMTVSGLPKKQCP 76
                     SCRPCVCNGHADECNTHTGACLGCRDHTGGEHCERCIAGFHRDPRLPY----GGQCRPCP 928
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THE TRANSPORTED THE TRANSPORTED BORDED BORDE

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CARBOHYD
CARBOHYD
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CONFLICT
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CARBOHYD
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                Similarity
                                                           248
368
1085
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914
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9A; 1
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                                                                                                 N-LINKED (GLCNAC. ...
                                                         R -> G (IN REF. 2).
G -> A (IN REF. 2).
MW; 9555CF5B2485OCB
                                                                                                                                                                                                     DOMAIN I.
COILED COIL (P
COILED COIL (P)
COILED COIL (P)
EX SIMILARITY
BY SIMILARITY
6;
Score 71; DB Pred. No. 13; 6; Mismatches
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                                                           9555CF5B24850CB7
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D COIL (POTENTIAL).
D COIL (POTENTIAL)
D COIL (POTENTIAL)
                                                                                                                                                                                                        (PROBABLE)
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 46;
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                              Length 1798
 Indels
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(POTENTIAL).
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(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                     (POTENTIAL)
 16;
Gaps
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4:

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929 77

CPEGPGS----

QRHFATSCHQDEYSQQIVCHCR 957

CDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQ 111

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                                                                                                                                            RESULT
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         7UP1_DROME STANDARD; PRT; 543
P16375; Q9VGBO;
01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence upda
16-OCT-2001 (Rel. 40, Last annotation up
Steroid receptor seven-up type 1.
SVP OR NR2F3 OR CG11502.
                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
   Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                     Transferase;
                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; X57559; CAA40788.1; -. PIR; S16664; S16664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Characterizations of the human parainfluenza type 2 virus gene encoding the L protein and the intergenic sequences.";
Nucleic Acids Res. 19:2739-2746(1991).

11- FUNCTION: PROBABLE COMPONENT OF THE ACTIVE POLYMERASE. IT MAY FUNCTION IN MRNA SYNTHESIS, CAPPING, METHYLATION AND POLY(A) SYNTHESIS OF REMLY SYNTHESISED VIRAL MRNAS, RNA EDITING OF THE GENE TRANSCRIPT, AND PROTEIN KINASE ACTIVITY.

11- CARALYTIC ACTIVITY: N nucleoside triphosphate - N diphosphate
                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR001016; Viral_RNA_pol_L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P26676,
01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last seq
15-JUN-2002 (Rel. 41, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human parainfluenza 2 virus (strain Toshiba) (PIV-2).
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Paramyxovirinae; Rubulavirus.
NCBI_TaxID=11214;
                                                                                                                                                                                         477
                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kawano M., Okamoto K., Nishio M., Ito Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RNA polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RRPL_PI2HT
                                                                                                                                                                                                                    51
                                                                                                                                                                                                                                                                                13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY: WITH L PROTEIN OF OTHER PARAMYXOVIRUSES.
                                                                                                                                                                             DKAISAPRSDWMSV------FRRSLIKQRHQRHHIPMPNPFNR 513
                                                                                                                                                                                                          DWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHH-RKPNKHSR 101
                                                                                                                                                                                                                                         PLILPKNASKSL----IEFQHDNAEISYEYTLKHWKEISLIEFRKCFDFDPGEELSIFMK
                                                                                                                                                                                                                                                                      PIMIMSMVSSSLNPGVARGHRDRGQAS-----RRWLQ------EGGQECE--CK 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RNA) (N)
                                                                                                                                                                                                                                                                                                                                                                   PF00946; Paramyx_RNA_pol;
ferase; RNA-directed RNA p
NCE 2262 AA; 256380 MW;
                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed=1645865;
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                                                                                                                                                                                                                                                                                                                          11.0%;
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Last annotation update)
bubunit (EC 2.7.7.48) (Large structural protein)
(Fruit fly)
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                                                                                                                                                                                                                                                                                                           13;
                                                                                                                                                                                                                                                                                                                        Score 71;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                  polymerase.
W; 82468303F4453B48 CRC64;
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                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                        543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2262
                                                                                                                                                                                                                                                                                                                                     DB 1; Length 2262;
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                                                                                                                                                                                                                                                                                                        36;
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EMBL;

AE003695; M28863;

AAA62770

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(See http://www.isb-sib.ch/announce/

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RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D., RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Golle R.F., RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Golle R.F., RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Golle R.F., RA Adams M.D., Celniker S.E., Richards S.A. Ashburner M., Henderson S.N., Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfelffer B.D., RA Barlew R.M., Basu A., Barter E.G., Helt G., Nelson C.R., Miklos G.L.G., RA Abril J.F., Agbayani A., An H.-J., Andrews-Ffannkoch C., Badwin D., RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Bessley E.M., RA Barlew R.M., Basu A., Baxendale J., Bayraktaroglu L., Bessley E.M., RA Barlew R.M., Basu A., Baxendale J., Bayraktaroglu L., Bessley E.M., RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P., Ra Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Glodek R., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., Pospier C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K., RA Borkova M., Gong F., Gorrell J.-H., Gu Z., Gabrit W.M., Glasser K., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J., Lai Z., Llang Y., Lin X., Ha Lasko P., Levi Y., Noberry C., Morris J., Washer J.R., Hai Z., Lais P., Lai Z., Lais P., Lai Z., 
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MEDLINE=90124631; PubMed=2105166;
Miodzik M., Hiromi Y., Weber U.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20196006; PubMed=10731132;
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Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brach
Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID-7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mlodzik M., Hiromi Y., Weber U., Goodman
"The Drosophila seven-up gene, a member
                                                                                                                                                                                                                          (AC P16376); ARE PRODUCED BY ALTERNATIVE IN THEIR C-TERMINAL PART.
TISSUE SPECIFICITY: EXPRESSED IN A SUBSET SIMILARITY: BELONGS TO THE NUCLEAR HORMON
                                                                                                                                                                                                                                                                                                     SUBCELLULAR LOCATION: Nuclear (Potential).
ALTERNATIVE PRODUCTS: 2 ISOFORMS; TYPE 1 (
                                                                                                    SWISS-PROT entry is copyright. It is produced through a ceen the Swiss Institute of Bioinformatics and the EMBL European Bioinformatics Institute. There are no restrict by non-profit institutions as long as its content is
                                                                                                                                                                                                                                                                                                                                              CELLS PRECURSORS DURING EYE DEVELOPMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             up gene, a member of the steroid photoreceptor cell fates.";
                                                                                                                                                                                                                        EXPRESSED IN A SUBSET C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goodman C.S.,
member of the
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                                                                                                                                                                                                                          OF NEURAL
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ONLY DIFFER
                                                                                                                                            a collaboration
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7UP2_DR
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Best Local Similarity
Matches 27; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
Pfam; PF001059; zfFCHORMONER.
PRINTS; PR00047; STROIDFINGER.
PRODOM; PD000035; Znf_C4steroid; 1
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7UP2_DROME STANDARD; PRT; 746 AA.
p.16376;
01-AUG-1990 (Rel. 15, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-UTL-1999 (Rel. 38, Last annotation update)
55-UTL-1999 (Rel. 38, Last sequence update)
56-UTL-1999 (Rel. 15, Created)
57-UTL-1999 (Rel. 15, Created)
58-UTL-1999 (Rel. 16, Last sequence update)
58-UTL-1999 (Re
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                        DNA_BIND
ZN_FING
ZN_FING
                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
MEDLINE-90124631; PubMed-2105166;
MIOdzik M., Hiromi Y., Weber U., Goodman C.S.,
"The Drosophila seven-up gene, a member of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIR; A3269
HSSP; P197
TRANSFAC;
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InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001723; Stdhrmn_receptor.
InterPro; IPR001628; Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
Receptor; Transcription regulation; DNA-binding;
Zinc-finger; Vision; Alternative splicing.
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                                                                                                                                                                                            IN THEIR C-TERMINAL TISSUE SPECIFICITY: SIMILARITY: BELONGS
                                                                                                                                                                             NR2 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RGSRNCPID-----QHHRNQCQYCR-----LKKC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SQSSNSGSQIDSKQNIECVVCGDKSSGKHYGQFTCEG----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SSSLNPG------VARGHRDRGQASRRWLQEGGQECECKDWFLRAPRRKFMTVSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 T02741;
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200
236
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200 265 NUCLEAR RECEE
200 220 C4-TYPE.
236 260 C4-TYPE.
43 AA; 57987 MW; OBC189DCF1/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A32693.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10.9%;
26.7%;
                                                                                                                                                                                               PART.
EXPRESSED IN A
TO THE NUCLEAR
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Pred. No. 5.3;
12; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEAR RECEPTOR-TYPE. C4-TYPE.
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                                                                                                                                                                                                                                                                                                                                                                                       Rubin G.M.;
steroid receptor
.";
                                                                                                                                                                                               RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 260
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                                                                                                                                                                                                                     NEURAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                 PHOTORECEPTOR
                                                                                                                                                                                                                                                             AND
                                                                                                                                                                                               PRECURSORS. FAMILY.
                                                                                                                                                                                                                                                                               AND TYPE
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                                                                                                          a collaboration
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  TRBM_HUMAN
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Best Local S
Matches 27
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Pfam; PF00105; zf-C4; 1.
Pfam; PF00047; SF00IDFINGER.
PF0D00035; Znf_C4steroid; 1
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                "Human
of the
                                                                                                                                                                                                                                                                                                                                                                                   01-APR-1988 (Rel. 07, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Thrombomodulin precursor (Fetomodulin) (TM) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; M28864; AAA03014.1;
PIR; B32693; B32693.
HSSP; P19793.
SEQUENCE FROM N.A
                                                                                                                     MEDLINE-88024950; PubMed-2822087
Wen D., Dittman W.A., Ye R.D., D
"Human thrombomodulin: complete
localization of the gene.";
Biochemistry 26:4350-4357(1987).
                                                                                                                                                                                                                         Suzuki K., Kusumoto H., Deyashiki Y., Nishioka J., Maruyama I. Zushi M., Kawahara S., Honda G., Yamamoto S., Horiguchi S., "Structure and expression of human thrombomodulin, a thrombin receptor on endothellum acting as a cofactor for protein C activation.";
                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Receptor; Transcription regulation; DNA-b:
Zinc-finger; Vision; Alternative splicing
DNA_BIND 200 265 NUTURE RECEI
ZN_FING 200 220 C4-TYPE.
ZN_FING 236 260 C4-TYPE.
SEQUENCE 746 AA; 76830 MW; 7F256AFD416
                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. MEDLINE=88004395; Pubmed=2820710;
                                                                          Jackman
                                                                                   MEDLINE=87317665; PubMed=2819876;
                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                        SEQUENCE FROM
                                                                                                                                                                                                                 EMBO J.
                                                                                                                                                                                                                                                                                                                           NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRBM_HUMAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FlyBase; FBgn0003651; svp.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21 SSSLNPG-------VARGHRDRGQASRRWLQEGGQECECKDWFLRAPRRKFMTVSG
                                                                                                                                                                                                                                                                                                                                                                             OR THRM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RGSRNCPID-----QHHRNQCQYCR----LKKC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SQSSNSGSQIDSKQNIECVVCGDKSSGKHYGQFTCEG-----CKSFFKRSVRRN-LTYSC 236
                              thrombomodulin gene is intron control.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27;
                                                         R.W., Beeler D.L.,
                                                                                                                                                                                                              6:1891-1897(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                          Acad.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                    N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                          PubMed=2822087;
                                                                                                                                                                                                                                                                                                                                       Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10.9%;
26.7%;
                        U.S.A. 84:6425-6429(1987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 70; DB
Pred. No. 7.2;
l2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEAR RECEPTOR-TYPE
                                                                                                                                                                                                                                                                                                                                        Catarrhini;
                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                 Deaven L.L., Majerus P.W., Sadler cDNA sequence and chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7F256AFD4165326D CRC64,
                                               soff G., depleted:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      575
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      B
                                                                                                                                                                                                                                                                                                                                        Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                       (CD141 antigen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28;
                                             Rosenberg R.D
nucleic acid
and suggest s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 746
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                                               suggest sites
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                                                of.
                                                                                                                                                             J.E.;
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Shirai T., Shi Deyashiki Y.,

MEDLINE=88227901; PubMed=2836377;

Yamamoto S.,

Kusumoto

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RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,
RA Deloukas P., Matthews L.H., Ashurst J., Babbage A.K., Bagguley C.L.,
RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M.,
RA Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,
RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,
RA Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
RA Marsh V.L., Martin S.L., McConnachie L.J., McLay K., McMurray A.A.,
RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,
RA Rines A., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
RA Rice C.M., Ross M.T., Scott C.E., Schra H.K., Showhkeen R., Sims S.,
RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
RA Tracey A., Tromans A.C., Vaudin M., Wallis J.M.,
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MEDLINE=96100636; PubMed=8528067;
            "Structural resiliency
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MEDLINE=96007474; PubMed=7559494;
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in soluble recombinant human thrombomodulin: potentia
functionality by glycosyltransferase competition for
Biochem. J. 295:131-140(1993).
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Grinnell B.W.;
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nd structure of an EG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Norlund L., Holm J., zoll "A common thrombomodulin myocardial infarction.";
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                                                                                                                                                                                                                                                                                                                                                                                        disease."
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"A mutation in the thrombomodulin gene,
"A mutation in the thrombomodulin gene,
and the risk of myocardial infarction i
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Oehlin A.-K., Norlund L., M
"Thrombomodulin gene variat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oehlin A.-K., Marlar R.A.;
"The first mutation identified
45-year-old man presenting with
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EGF-like domain with a novel disulfide-bonding
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                                                                                                                           POLYMORPHISM: WARIATIONS IN THBD ARE ASSOCIATED WITH AN INCR RISK OF DEVELOPING THROMBOEMBOLIC DISEASES (TED).

DISEASE: DEFECTS IN THBD COULD BE THE CAUSE OF INHERITED TED ALSO CALLED INHERITED THROMBOPHILIA, PATIENTS WITH TED HAVE DEFECTS OF THE HAEMOPOIETIC SYSTEM WHICH CREATES A TENDENCY OCCURRENCE OF THROMBOSIS. TED PLAY AN IMPORTANT ROLE IN THE PATHOGENESIS OF VARIOUS CARDIOVASCULAR DISORDERS.

SIMILARITY: CONTAINS 6 EGF-LIKE DOWAINS.

SAMLARITY: CONTAINS 6 NOTE-CD guide CD141 entry;
                                                                                                                                                                                                                                                         SUBCELLULAR LOCATION:
TISSUE SPECIFICITY: EN
                                                                                                          DATABASE: NAME-PROW; NOTE-CD guide CD141 entry; WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd141.htm".
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                                         SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EMEUROPEAN Bioinformatics Institute. There are no restrict by non-profit institutions as long as its content
                                                                                                                                                                                                                                                 THROMBOMODULIN.
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                                                                                                                                                                                                                                                                                                                                                         use by non-profit institutions as long modified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -1- FUNCTION: MAY BE INVOLVED IN VISUAL SYSTEM DEVELOPMENT.
-1- SUBCELLULAR LOCATION: Nuclear (By similarity).
-1- SIMILARITY: BELONGS TO THE SIX/SINE OCULIS HOMEOBOX FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bovolenta P., Mallamaci A., Puelles L., "Expression pattern of cSix3, a member
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; A28307; A28307.
; A29680; A29680.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;; X05495; CAA29045.1; -., M16552; AAB59508.1; -., J02973; AAA61175.1; -., D00210; BAA00149.1; -., AL049651; CAB51954.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VGSSAAVAPLGLQLMCTAP--PGAVQGHWAR-EAPGAWDCSVENGGCEHACN----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----aipgaproqopagaalqadgrsctasatqscndloehf 295
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRW----LQEGGQECECKDWFLRAPR
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1ADX; 24-DEC-97.
2ADX; 24-DEC-97.
SuiteDB; P07204; -.
; HGNC:11784; THBD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24;
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   PS00027;
PS50071;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JUN-96.
08-JUN-95.
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20-JUN-96.
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(Rel. 37, Last seq
(Rel. 41, Last ann
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   HOMEOBOX_1;
HOMEOBOX_2;
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                                                                                                                                             Homeobox.
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annotation update)
oculis homeobox homolog
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Pred. No. 6.
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; Galliformes; Phasianidae; Phasianinae;
   FALSE_NEG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
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as its content
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RESULT 12
VDR_MOUSE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                       InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; Zf-C4; 1.
PRINTS; PR00047; STROIDFINGER.
PRODOM; PD000035; Znf_C4steroid; 1.
SMART; SM00430; HDLI; 1.
SMART; SM00430; HDLI; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-FEB-1996
01-FEB-1996
15-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Developmental
DOMAIN 4
DNA_BIND 18
DOMAIN 24
SEQUENCE 314
DNA_BIND
ZN_FING
ZN_FING
                                                                                                                                                                          EMBL;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE-95137405; PubMed-7835717;
Kamei Y., Kawada T., Fukuwatari T.,
Kamei Y., Kawada T., Fukuwatari T.,
                                                                                                                                                     TRANSFAC; T00883; -. MGD; MGI:103076; Vdr.
                                                                                                                                                                                                         entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                               use by non-profit institu modified and this statement
                                                                                                                                                                                                                                                                                                                                                                                 croning and sequencing receptor.";
                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                          -i- SUBCELLULAR LOCATION: Nuclear.
-i- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BI
-i- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEE
                                                                                                                                                                                                                                                                                                                                                                            Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VDR OR NR111.
Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vitamin D3 receptor
                                 zinc-finger;
                                                                                                                                                                                                                                                     the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                     -!- FUNCTION: VDR MEDIATES THE ACTION OF THE EXPRESSION OF HORMONE SENSITIVE (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P48281;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VDR_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     237
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41 RWLQEGGQECEC------KDWFLRAP----RRKFMTVSGLPKKQCPCDHFKGNVK
                                                                                                                                                                                                                                                                                                  NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                           152:281-282(1995).
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                                                                                                                                                                          D31969; BAA06737.1;
P03372; 1HCQ.
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245
314 AA;
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44 50
98 247
248 24677 MW;
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Phosphorylation.
24 89 N
24 44 C
60 84 C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata;
Rođentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3, Last sequence update)
8, Last annotation update)
(VDR) (1,25-dihydroxyvitamin
                                                                                                                                                                                                                                           institutions as long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13;
                                                                                                                                                                                                                               is not removed
  C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 69;
Pred. No.
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POLY-ALA.
; D9A04530185BA75F CRC64;
                      NUCLEAR RECEPTOR-TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; I
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
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                                                                                                                                                                                                                                                                                                                                                                                             Ono T., K
                                          DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               422
                                                                                                                                                                                                                   (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                      There are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     268
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                                                                                                                                                                                                                                           its content
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mouse
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; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         receptor).
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se vitamin
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                                                                                                                                                                                                                                                                                                                                                               CONTROLLING
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RESULT 13
VDR_XENA
ID VDR_XENA
ID COLOR
IS -01312
DT 15-DE
CO SENA
ILS VIR C
CO Amph
CO XENO
RY TISSE
RX MEDLL
RY TISSE
RX MEDLL
RY Endo
CC -1-

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                                              Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
PF1NTS; PR00047; STROIDFINGER.
PRINTS; PR000035; Znf_C4steroid; 1.
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content modified and this statement is not removed. Usage by an entitles requires a license agreement (See http://www.isborsend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Endocrinology 138:2347-2353(1997).

1- FUNCTION: VDR MEDIATIES THE ACTION OF VITAMIN D3 BY CONTROLLING
THE EXPRESSION OF HORMONE SENSITIVE GENES.

-1- SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE-Kidney;
MEDLINE-97307679; PubMed-9165021;
                                                                                                                                                                                                                                                                                  EMBL; U91846; AAB58585.1; HSSP; O75469; 1ILG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-DEC-1998
15-DEC-1998
15-JUL-1999
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                                                                                                                                                                                                                            InterPro; IPR000536; InterPro; IPR001628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=8355;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xenopus laevis (African clawed frog)
Bukaryota; Metazoa; Chordata; Crania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VDR OR NR111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vitamin D3 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VDR_XENLA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Li Y.C., Bergwitz C., Jueppner H., Demay M.B.; Cloning and characterization of the vitamin D receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kenopodinae;
                       receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                laevis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE SPECIFICITY: DETECTED IN ALL THE TISSUE EXALEVEL IN SMALL INTESTINE AND SKIN.
DEVELOPMENTAL STAGE: FIRST DETECTED AT STAGE 13. I
GRADUALLY AND PEAKS AT STAGE 57-61 THEN DECREASES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDIN SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEEN IN ADULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CEGCKGFFRRSMKRKALFT-----
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                       Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90
187
422
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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30.1%;
                                                                                                                                                                                                                         Hormone_rec_lig.
Znf_C4steroid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4704CC8172445732
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                       DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A
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                                                                                                                                                                                                                                                                                                                                                                             . Usage by and for commercial http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .15;
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RESULT
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ZN_FING
ZN_FING
DOMAIN
DOMAIN
                                                                   EMBL; J04147; AAA41089.1;
PIR; A31761; A31761.
PIR; A31367; A31367.
HSSP; P03372; 1HCQ.
                                                                                                                                             use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See
                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entre the European Bioinformatics Institute. There are no restricted the supplies of the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 85:1005-1009(1988).
1- FUNCTION: VDR MEDIATES THE ACTION OF VLTAMIN
THE EXPRESSION OF HORMONE SUNSITIVE GENES.
-1- SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JAN-1990 (Rel. 13, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Yitamin D3 receptor (YDR) (1,25-dihydroxyvitamin
                                                                                                                                   or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                CDNA.
                                                                                                                                                                                                                                                                                                                                          "Isolation and expression
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01-JAN-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                             A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAI -!- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.

    -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMA.

                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=88124963; PubMed=2829212;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-89071726; PubMed=2849110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VDR OR NR1I1.
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                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 58-423 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                       Proc. Natl.
                                                                                                                                                                                                                                                                                                                                                                                                                              Burmester J.K., Wiese R.J., N
"Structure and regulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=10116;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                   NR1 SUBFAMILY.
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22; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Chordata; Rodentia;
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30.1%;
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                                                                                                                                                                                                                                                                                                                                          Deluca H.F.; of rat 1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                              Maeda N., of the rat 1
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HINGE.
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3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 68.5;
Pred. No. 6;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEAR RECEPTOR-TYPE. C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
                                                                                                                                                                                                                                                                                                                                                                                                       85:9499-9502(1988)
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1,25-dihydroxyvitamin
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TRANSFAC; T00882; ...
InterPro; IPR000536; Hormone_r.
InterPro; IPR001628; Znf_C4ste.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.

Znf_C4steroid.

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ZN_FING
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SMART; S
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SMART; SM00399; ZnE_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Phosphorylation.
PRINTS; PR00047; STROIDFINGER.
ProDom; PD000035; Znf_C4steroid;
SMART; SM00430; HOLI; 1.
SMART; SM00399; Znf_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTO
                                                                          Pfam; PF00104; hormone_rec;
Pfam; PF00105; zf-C4; 1.
                                                                                                                                    EMBL; U50200; AAB01543.1; HSSP; 075469; 1ILG.
                                                                                                                                                                             use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                   <del>-</del>
                                                                                                                                                                                                                                                                                                                                                                                           Neibergs H.L., Bosworth B.T., Reinhardt T.A.;
"Nucleotide sequence of the bovine vitamin D3 receptor.";
J. Dairy Sci. 79:1313-1315(1996),
-I- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 BY CONTROLLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthoria; Cetartiodactyla; Ruminantia; Pecora; Bovoldea;
Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin
VDR OR NRIII.
                                                                                                        InterPro; IPR000536;
InterPro; IPR001628;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=97034797; PubMed=8880453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          028037;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VDR_BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               109 QC----QLRSFAL 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41 CEGCKGFFRRSMKRKALFT------CP---FNGDCRITKDNR-----RHCQACR--LK 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          50 CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                                                                                                                                                                                                                  THE EXPRESSION OF HORMONE SENSITIVE GENES.
SUBCELLULAR LOCATION: NUCLEAT.
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
                                                                                                                                                                                                                                                                                                       NR1 SUBFAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RCVDIGMMKEFIL 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PD000035;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; phosphorylation.
24 89
24 44 C
60 84 C
90 187 H
188 423 L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     423 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
NUCLEAR_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Znf_C4steroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47813 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.6%;
                                                                                                        Hormone_rec_lig.
Znf_C4steroid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEAR RECEPTOR-TYPE.
C4-TYPE.
C4-TYPE.
HINGE.
HINGE.
LIGAND-BINDING.
1A0E519A9DCCE990 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 68.5;
Pred. No. 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 423;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              D3 receptor).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23;
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                                                                                                                                        Receptor; Tra
Zinc-finger;
DNA_BIND
ZN_FING
ZN_FING
                                                                                                             DOMAIN
DOMAIN
SEQUENCE
                  109 QC----QLRSFAL 117
80 RCVDIGMMKEFIL
                                     38 CEGCKGFFRRSMKRKALFT------CP---FNGDCRITKDNR-----RHCQACR--LK 79
                                                      50 CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                    Local
                                                                         l Similarity
22; Conserv
                                                                                                                                                                             Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                              21
21
57
87
189
189
                                                                          Conservative
                                                                                                                                                                    Phosphorylation.
                                                                                                                       86
41
81
188
424
                                                                                 10.6%;
                                                                                                               47957
                                                                                                              MW;
                                                                          13;
                                                                                                                                          C4-TYPE.
                                                                                                           HINGE.
LIGAND-BINDING.
; E9E24926CE38CB7D CRC64;
                                                                                    Score 68.5;
Pred. No. 6;
                                                                                                                                                            NUCLEAR RECEPTOR-TYPE
                                                                          Mismatches
                                                                                            DB 1;
                                                                          15;
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